CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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per .	25X1 SECRET		25X1
COUNTRY	East Germany	REPORT NO.	
SUBJECT	Werk fuer Fernmel@ewesen HF (OSW) Production of Television Tubes and Transistors; Organizational Chart	DATE DISTR.	30 June 1953
DATE OF INFO.	Transistors, organizational one.	REQUIREMENT NO.	4 25X1
PLACE ACQUIRED		REFERENCES	
	25X1		
	THE SOURCE EVALUATIONS IN THIS REPOR THE APPRAISAL OF CONTENT IS T (FOR KEY SEE REVERSE)		
25X1 — Tn 16	OCTION OF TELEVISION TUBES AT WERK HF (CO)52, there were approximately 5,000 employed.	oyees at Werk HF, Obe	rschoeneweide,
and i	n 1953 this number was increased to about MUELLER	out 7,500. The chief	of Werk HF
—	Enclosure		
	of the principal items of production was the production had about 40 per delivered to the Soviet Union, about 80	cent rejects, and wh	en the tubes
25V1 by th	ne Soviets. This means that approximate action are rejects.	ely 90 per cent of the	e original projection
mater infer worke good The	cause of this high percentage of rejectifials such as metals, glass, etc. which for materials is due to the stress on the must produce a certain quota and doe materials, he uses poor materials is superior position of political workers acts as a deterrent in maintaining the	go into the tubes. Volume rather than quest not have the necess of order to meet his prover scientists in the	The use of ality. When a sary conduction norm. e factories
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(Note: Washington Distribution Indicated By "X"; Field Distribution By "#".)

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	CON	STRUCTION OF TOOLS AND DIES, ETC.
	4	T- D
25X1	4.	In Department 601, approximately 20 persons were employed, of which live
25X1		were draftsmen. The chief of this department was Heinz WENDE.
23/1		constructed tools and dies for research and development
25X1		purposes. Most of the calculations and specifications for these
		tools came from the laboratories, but occasionally specifications
		were received directly from the Ministry for Machine Construction
25X1	<u> </u>	ovens and machines for the following purposes:
23/1	5•[ovens and machines for the forfoatag purposes.
		a. Oven for television viewing tubes
		b. Melting machine
		c. Tempering oven for radio tubes
		d. Miscellaneous laboratory jigs and dies
25X1	/ 6	From the size and quality of the machines do
20/(1		not believe that they were intended for series production.
		They seemed to be only for laboratory development and research.
25X1		
	.7∙ ∵≆ad	constructed a drying device for applying a mass
25X1	in particular	of material on the inside of television tubes. This device used hot air. A fluid, which could be withdrawn, left the
	,	mass on the sides of the tubes.
25X1		A similiar
20/(1		instrument was made to dry the black paste applied to the end
		of the picture tube.
25X1	8.	The last project was a grinding machine to
	•	smooth German crystals for the manufacture of transistors.
		The machine was required to: a. cut small discs from a bar
		of germanium, b. to smooth these discs in a cone shape,
		and c. to smooth a concave portion in the disc.
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	PRC	DUCTION OF TRANSISTORS
	Thr	ee Types of Transistors to Be Produced
25X1	9.	three different types of transistors were
		planned. These three were:
		a. Two thin wires would have a contact on a cone tip and
		be separated by a 5 millimeter distance
		b. A small crystal disc with the wires making a contact
		with the disc and the wires parallel to each other
		across the disc
•	¥	c. A disc with both sides concaved and on each side a
		wire contacting the disc.
	Pra	duction Scheduled for July 1953
25X1		
	10.	It was questionable whether these transitors
25X1		could be produced for the first scheduled production in July
		1953. It was believed that not many of the transistors could be produced, since there was only a total of 250 grams of
•		germanium at Werk HF Attempts Were
		being made to replace germanium with silicon. Ing. NARTH,

Approved For Release 2005/06/06 : CIA-RDP80-00810A001500270007-7

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1953 PRODUCTION PROGRAM

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11. The production schedule for 1953 was announced at a yearly meeting of workers. At this meeting,

was stated that miniature tubes, four inch, nine inch, and twelve inch television tubes, and metal ceramic transmitting tubes would be produced. According to this 1953 program, radio tubes were no longer to be produced.

ENCLOSURE (A) Departments of Werk HF

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